3-6-7 Kasumigaseki, Chiyoda-ku Tokyo 100-0013 JAPAN
URL: www.sceti.jp/export/
E-mail: exp-pet@sceti.co.jp

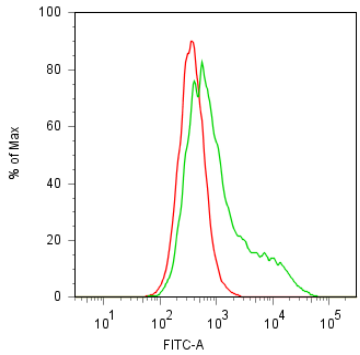
KO599

For research use only

Anti Mouse Sema4b Monoclonal Antibody

Clone No. TK-2

Code No.	KO599
Terget	Sema4b
Category	Neuroscience
Gene ID	20352
Primary Source	MGI:107559
Synonyms	SemC; Semac; KIAA1745; mKIAA1745
Type	Monoclonal Antibody
Immunogen	recombinant protein of mouse Sema4B extracellular domain
Raised in	Rat
Myeloma	P3U1
Clone number	TK-2
Purification	KAPTIV-M
Source	Serum-free medium
Isotype	IgM
Cross Reactivity	-
Label	Unlabeled
Concentration	0.25 mg/mL
Contents(Volume)	25μg(100 μL/vial)
Buffer	PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]
Storage	Store at - 20℃ long term, store at 4℃ short term. Avoid repeated freeze-thaw cycles.
Application	ELISA, IP, FCM



[FCM] COS cell expressing mouse Sema4b

The data is provided from Research Institute for Microbial Diseases, Osaka Univ., Japan.

ELISA	WB	IHC	ICC
1.0	Not tested	Not tested	Not tested
IP	FCM	IF	Neutralization
5.0	0.05	Not tested	Not tested

(μg/mL)

Reference

1. "Prediction of the coding sequences of mouse homologues of KIAA gene: IV. The complete nucleotide sequences of 500 mouse KIAA-homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries." Okazaki N., et al. DNA Res. 11:205-218(2004) [PubMed: 15368895] [Abstract] Tissue: Pancreatic islet.
2. "Murine semaphorin D/collapsin is a member of a diverse gene family and creates domains inhibitory for axonal extension." Pueschel A.W., et al. Neuron 14:941-948(1995) [PubMed: 7748561] [Abstract] Cited for: NUCLEOTIDE SEQUENCE [MRNA] OF 42-823. Strain: NMRI. Tissue: Brain.
3. "A PDZ protein regulates the distribution of the transmembrane semaphorin, M-SemF." Wang L.-H., et al. J. Biol. Chem. 274:14137-14146(1999) [PubMed: 10318831] [Abstract]

UniPlot Summary

Function// Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.
Subunit structure// Interacts with GIPC PDZ domain. Ref.4
Subcellular location// Membrane; Single-pass type I membrane protein.
Developmental stage// Expressed from day 10 in the embryo. Low levels found between days 10-12. Expression peaks on day 13 with moderate levels from then until birth.
Sequence similarities// Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 PSI domain. Contains 1 Sema domain.